

We claim:

1. A composition for cleaning hard surfaces comprising:
 - (a) about 0.001% to about 0.5% by weight of a surfactant;
 - (b) about 0.001% to about 2% by weight of an ammonia compound;
 - (c) about 0.001% to about 1% by weight of an alcohol, which can be the same or different as the ammonia compound; and
 - (d) balance being water.
2. The composition according to claim 1, wherein said composition comprises about 0.001% to about 0.25% by weight of surfactant.
3. The composition according to claim 1, wherein said composition comprises about 0.005% to about 0.1% by weight of surfactant.
4. The composition according to claim 1, wherein said composition comprises about 0.01% to about 0.075% by weight of surfactant.
5. The composition according to claim 1, wherein said composition comprises about 0.01% to about 0.05% by weight of surfactant.
6. The composition according to claim 1, wherein said surfactant is selected from the group consisting of nonionic surfactants, anionic surfactants, cationic surfactants, zwitterionic surfactants and mixtures thereof.

7. The composition according to claim 6, wherein said surfactant is selected from the group consisting of TRITON[®] X-100, POLY-TERGENT[®] series, TERGITOL[®] series, PLURONIC[®] surfactants, IGEPAL[®] series, DC silicone-glycol copolymers, NEODOL[®] series, Diacid series, LONZAIN[®] CO, VELVETEX[®], Witcolate LCP, REWOTERIC[®], DEHYPOUND[®] HSC 5515, GLUCOPON[®], AO-14-2, Q-14-2, Tomadine 101 LF, Alkali Surfactant NM, Amphoteric L, CS Surfactant and mixtures thereof.

8. The composition according to claim 1, wherein said composition comprises about 0.005% to about 1.0% by weight the ammonia compound.

9. The composition according to claim 1, wherein said composition comprises about 0.01% to about 0.75% by weight the ammonia compound.

10. The composition according to claim 1, wherein said composition comprises about 0.05% to about 0.50% by weight the ammonia compound.

11. The composition according to claim 1, wherein said composition comprises about 0.07% to about 0.30% by weight the ammonia compound.

12. The composition according to claim 1, wherein said ammonia compound is selected from the group consisting of ammonium carbamate, ammonium carbonate, ammonium bicarbonate, ammonium hydroxide, ammonium acetate, ammonium borate, ammonium phosphate, an alkanolamine having 1 to 6 carbon atoms and ammonia.

13. The composition according to claim 1, wherein said ammonia compound is selected from the group consisting of ammonia, ammonium hydroxide and an alkanolamine having 1 to 6 carbon atoms.

14. The composition according to claim 1, wherein said composition comprises about 0.005% to about 0.80% by weight alcohol.

15. The composition according to claim 1, wherein said composition comprises about 0.01% to about 0.70% by weight alcohol.

16. The composition according to claim 1, wherein said composition comprises about 0.05% to about 0.60% by weight alcohol.

17. The composition according to claim 1, wherein said composition comprises about 0.1% to about 0.50% by weight alcohol.

18. The composition according to claim 1, wherein said alcohol is selected from the group consisting of water miscible alcohols having 1 to 6 carbon

atoms, water miscible glycols and glycol ethers having 2 to 15 carbon atoms and mixtures thereof.

19. The composition according to claim 18, wherein said alcohol is selected from the group consisting of methanol, ethanol, isopropanol, propanol, butanol, furfuryl alcohol, tetrahydrofurfuryl alcohol, 1-amino-2-propanol, ethylene glycol, propylene glycol and 2-butoxyethanol.

20. The composition according to claim 19, wherein said alcohol is selected from the group consisting of ethanol, isopropanol, tetrahydrofurfuryl alcohol, 1-amino-2-propanol, and 2-butoxyethanol.

21. The composition according to claim 1, wherein said composition further comprises one or more enzymes selected from the group consisting of protease, cellulase, chitinase, lipase, and amylase.

22. A composition for cleaning hard surfaces comprising:

- (a) about 0.001% to about 0.25% by weight of a surfactant;
- (b) about 0.005% to about 1.0% by weight of an ammonia compound;
- (c) about 0.005% to about 0.80% by weight of an alcohol; and
- (d) balance being water.

23. A composition for cleaning hard surfaces comprising:

- (a) about 0.005% to about 0.1% by weight of a surfactant;



(b) about 0.01% to about 0.75% by weight of an ammonia

compound;

(c) about 0.01% to about 0.70% by weight of an alcohol; and

(d) balance being water.

24. A composition for cleaning hard surfaces comprising:

(a) about 0.01% to about 0.075% by weight of a surfactant;

(b) about 0.05% to about 0.50% by weight of an ammonia

compound;

(c) about 0.05% to about 0.60% by weight of an alcohol; and

(d) balance being water.

25. A composition for cleaning hard surfaces comprising:

(a) about 0.01% to about 0.05% by weight of a surfactant;

(b) about 0.07% to about 0.30% by weight of an ammonia

compound;

(c) about 0.1% to about 0.50% by weight of an alcohol; and

(d) balance being water.

26. The composition according to any one of claims 22-25, wherein

said surfactant is selected from the group consisting of TRITON[®] X-100,

DEHYPOUND[®] HSC 5515, Witcolate LCP, CS Surfactant and mixtures thereof.

27. The composition according to any one of claims 22-25, wherein said ammonia compound is selected from the group consisting of ammonia and 1-amino-2-propanol.

28. The composition according to any one of claims 22-25, wherein said alcohol is selected from ethanol, isopropanol, tetrahydrofurfuryl alcohol, 1-amino-2-propanol, and 2-butoxyethanol and mixtures thereof.

29. A method for cleaning a hard surface comprising the steps of:
(a) applying to the hard surface a composition according to any one of claims 1, 22-25; and
(b) wiping the hard surface.

30. The method according to claim 29, wherein said hard surface is glass.

31. The method according to claim 29, wherein said method does not cause paint damage to said hard surface.

32. The method according to claim 29, wherein said surface is an automotive surface.

33. The method according to claim 32, wherein said automotive surface is selected from the group consisting of windshields, fenders, tires, doors,

roof, hood, trunk, bumpers, trim, windows, hub caps, transportation body and heat exchangers.

34. The method according to claim 33, wherein said automotive surface is a windshield.

35. The method according to claim 34, wherein said method does not cause damage to painted surfaces surrounding said windshield.

36. The method according to claim 29, wherein said method further comprises the step of removing organic soils from said hard surface.

37. A method for evaluating the effectiveness of a cleaning composition, comprising the steps of:

- (a) contacting a sample with said cleaning composition, wherein said sample comprises a soil;
- (b) determining rate of penetration of said composition into said soil; and
- (c) determining removal effectiveness.